

THIS IS AN ENCLOSURE TO
RESTRICTED

VSESOUZNOJE OBJEDINENIJE

STAT



TECHNOPROMIMPORT

M O S C O W

RADIO RECEIVER BYELARUSS

The Byelaruss is a 13 tube, six frequency band Superheterodyne set designed to operate from an A. C. source. High quality loudspeaker reception of broadcasting stations. Can be used as an amplifier for playing gramophone records by means of a pick-up. Push button fixed tuning permits reception of preselected stations: two in the long wave band and four in the medium wave band.

FREQUENCY BAND COVERAGE

Long Wave	2000—732 m (150—410 Kc/s)
Medium Wave	577—187.5 m (520—1000 Kc/s)
First Short Wave	55.3—32.6 m (5.4—9.3 Mc/s)
Second Short Wave	31.9—30.6 m (9.4—9.8 Mc/s)
Third Short Wave	25.8—24.8 m (11.6—12.1 Mc/s)
Fourth Short Wave	19.9—19.41 m (15.07—15.45 Mc/s)

POWER SUPPLY

A. C. source. Nominal voltage 110, 127, 220 V.

MAINS CONSUMPTION

At normal voltages of power supply--not more than 180 W.

RECEIVER STAGES AND TUBE COMPLEMENT

High Frequency Amplifier	6 K7
Mixer	6 SA7
Heterodyne	6 Ф6
First Intermediate Frequency Amplifier	6 K7
Second Intermediate Frequency Amplifier	6 K7
Second Detector and Low Frequency Preliminary Amplifier	6 Г7
Automatic Volume Control	6 Г7
Low Frequency Amplifier	6 H7
Low Frequency Output Amplifier	6П3, 2 off.
Tuning Indicator	6E5
Rectifier	5 114C, 2 off.

INTERMEDIATE FREQUENCY

465 Kc/s.

NOMINAL OUTPUT

Not less than 4 VA (at a ratio of non-linear distortion 5%).

ACCURACY OF SCALE CALIBRATION

Long and Medium Wave Bands	$\pm 2\%$, or better;
Short Wave Bands	$\pm 0.25\%$, or better,

HETERODYNE FREQUENCY DRIFT

10 minute Warm-up Drift (5 minutes after switching on) not more than:

Long Wave Band	0.6 Kc/s;
Medium Wave Band	0.6 Kc/s;
First Short Wave Band	2 Kc/s;
Second Short Wave Band	3 Kc/s;
Third Short Wave Band	3 Kc/s;
Fourth Short Wave Band	4 Kc/s.

SENSITIVITY OF RECEIVER

All Wave Bands 50 microvolts, or better.

SELECTIVITY

+10 Kc/s detuning of signal frequency gives an attenuation of not less than 35 decibels.

ATTENUATION DUE TO IMAGE INTERFERENCE

Long and Medium Wave Bands not less than 50 decibels
Short Wave Bands not less than 26 decibels.

ATTENUATION OF INTERMEDIATE FREQUENCY SIGNAL

not less than 40 decibels.

FREQUENCY RESPONSE

The overall audio frequency response curve taken at a frequency of 1000 Kc/s is within +18 decibels from 60 to 1600 c/s, and within +16 decibels from 160 to 6700 c/s.

AUTOMATIC VOLUME CONTROL

A 60 decibel variation in the input corresponds to a variation of not more than 8 decibels in the output.

MANUAL VOLUME CONTROL

not less than 50 decibels.

SENSITIVITY OF GRAMOPHONE PICK-UP

0.2 V, or better at nominal output.

LOUDSPEAKER

Electrodynamic, 10 VA output, with magnetizing. Cone diameter 300 mm. D. C. resistance of audio coil 16 Ohm.

CONTROLS

Knobs: Band Change-over switch, Tuning, Low Audio Frequency Control, Selectivity Control, Volume Control, High Audio Frequency Control. Six Push Buttons for Fixed Tuning, "Radio-Off" Push Button, "Gramophone-On" Push Button, "Smooth-Tuning-on" Push Button.

HOUSING

The Receiver is housed in a rectangular shape table type wooden cabinet, finished in polished walnut. The front panel of the cabinet carries a rectangular vertical tuning scale, the controls and the push buttons. The electrodynamic loudspeaker is mounted behind decorative silk fabric.

DIMENSIONS OF CABINET

690 x 455 x 305 mm.

WEIGHT OF RECEIVER

30 kg.

*This material procured by
Central Intelligence Agency*

RESTRICTED

VSESOJUZNOJE OBJEDINENIJE

STAT

**TECHNOPROMIMPORT**

M O S C O W

RADIO RECEIVER**BALTICA**

The Baltika is a 6-tube, four frequency band superheterodyne set designed to operate from an A. C. source. High quality loudspeaker reception of broadcasting stations. Can be used as an amplifier for playing gramophone records by means of a pick-up.

FREQUENCY BAND COVERAGE

Long Wave	2000—732 m (150 — 410 Kc/s)
Medium Wave	577—187.5 m (520 — 1600 Kc/s)
First Short Wave	76—32 m (3.95 — 9.2 Mc/s)
Second Short Wave	33.3—24.9 m (9.0 — 12.1 Mc/s)

POWER SUPPLY

A. C. source. Normal voltage 110, 127, 220 V.

MAINS CONSUMPTION

At normal voltages of power supply not more than 70 W.

RECEIVER STAGES AND TUBE COMPLEMENT

Frequency Changer	6 SA7
Intermediate Frequency Amplifier	6 SK7
Second Detector and Low Frequency Preliminary Amplifier	6 SQ7
Low Frequency Output Amplifier	6 V6
Rectifier	5 114 C
Tuning Indicator	6 E5

INTERMEDIATE FREQUENCY

465 Kc/s.

NOMINAL OUTPUT

Not less than 2 W (at a ratio of non-linear distortion 7%).

ACCURACY OF SCALE CALIBRATION

Long and Medium Wave Bands	$\pm 3\%$ or better,
Short Wave Bands	$\pm 1\%$ or better.

HETERODYNE FREQUENCY DRIFT

10 minute Warm-up Drift (5 minutes after switching on) not more than:

Long and Medium Wave Bands	1 Kc/s;
First Short Wave Band	4 Kc/s;
Second Short Wave Band	6 Kc/s.

SENSITIVITY OF RECEIVER

Long and Medium Wave Bands	200 microvolts, or better;
Short Wave Bands	300 microvolts, or better,

SELECTIVITY

± 10 Kc/s detuning of signal frequency gives an attenuation of not less than 26 decibels.

ATTENUATION DUE TO IMAGE INTERFERENCE

Long and Medium Wave Bands not less than 30 decibels;
Short Wave Bands not less than 12 decibels.

ATTENUATION OF INTERMEDIATE FREQUENCY SIGNAL

not less than 26 decibels.

FREQUENCY RESPONSE

The overall audio frequency response curve taken at a frequency of 1000 Kc/s is within ± 20 decibels from 100 to 10000 c/s.

AUTOMATIC VOLUME CONTROL

A 26 decibel variation in the input corresponds to a variation of not more than 8 decibels in the output.

MANUAL VOLUME CONTROL

not less than 10 decibels.

SENSITIVITY OF GRAMOPHONE PICK-UP

0.25 V, or better at nominal output.

LOUDSPEAKER

Electrodynamic with combined magnetizing (permanent magnet and magnetizing from rectifier), 3 W output, Cone diameter 200 mm.

CONTROLS

Twin knobs:

- Small-Volume Control and "On-Off" switch;
- Large-Tone Control;
- Small-Receiver Tuning;
- Large-Band Change-Over Switch, an "Radio-Off-Gramophone" Switch.

HOUSING

The Receiver is housed in a wooden polished cabinet. The electrodynamic loudspeaker is mounted on the upper part of front panel under decorative silk fabric. Horizontal inclined tuning scale on lower part of front panel.

DIMENSIONS OF CABINET

500 x 360 x 280 mm.

WEIGHT OF RECEIVER

15 kg.

This material is controlled by
Central Intelligence Agency